

CLAIMS:

1. A video encoder comprising:
 - means for generating a first image block (101) from an image to be encoded;
 - means for generating a plurality of reference blocks (111);
 - means for generating a transformed image block (115) by applying an associative image transform to the first image block;
 - means for generating a plurality of transformed reference blocks (113) by applying the associative image transform to each of the plurality of reference blocks;
 - means for generating a plurality of residual image blocks (119) by determining a difference between the transformed image block and each of the plurality of transformed reference blocks;
 - means for selecting a selected reference block (105) of the plurality of reference blocks in response to the plurality of residual image blocks;
 - means for encoding (103, 107) the first image block in response to the selected reference block; and
 - means for performing analysis (117) of the image in response to data of the transformed image block.
2. A video encoder as claimed in claim 1 wherein the associative transform is a linear transform.
3. A video encoder as claimed in claim 1 wherein the associative transform is a Hadamard transform.
4. A video encoder as claimed in claim 1 wherein the associative transform is such that a data point of a transformed image block has a predetermined relationship with an average value of data points of a corresponding non-transformed image block.

5. A video encoder as claimed in claim 1 wherein the means for performing analysis of the image (117) is operable to perform content analysis of the image in response to data of the transformed image block.

5 6. A video encoder as claimed in claim 5 wherein the means for performing analysis of the image (117) is operable to perform content analysis of the image in response to a DC (Direct Current) parameter of the transformed image block.

7. A video encoder as claimed in claim 1 wherein the means for generating a 10 plurality of reference blocks (111) is operable to generate the reference blocks in response to data values of only the image.

8. A video encoder as claimed in claim 1 wherein the first image block comprises 15 luminance data.

15 9. A video encoder as claimed in claim 1 wherein the first image block consists in a 4 by 4 luminance data matrix.

10. A video encoder as claimed in claim 1 wherein the means for encoding (103, 20 107) comprises determining a difference block (103) between the first image block and the selected reference block and means for transforming the difference block (107) using a non-associative transform.

11. A video encoder as claimed in claim 1 wherein the video encoder is an 25 H.264/AVC video encoder.

12. A method of video encoding comprising the steps of:
- generating a first image block from an image to be encoded;
- generating a plurality of reference blocks;
30 - generating a transformed image block by applying an associative image transform to the first image block;
- generating a plurality of transformed reference blocks by applying the associative image transform to each of the plurality of reference blocks;

- generating a plurality of residual image blocks by determining a difference between the transformed image block and each of the plurality of transformed reference blocks;
 - selecting a selected reference block of the plurality of reference blocks in response to the plurality of residual image blocks;
 - encoding the first image block in response to the selected reference block; and
 - performing analysis of the image in response to data of the transformed image block.
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- 10 13. A computer program enabling the carrying out of a method according to claim 12.
14. A record carrier comprising a computer program as claimed in claim 13.